

## ABSTRACT OF THE DISCLOSURE

The present invention provides a real-time distributed system which can improve productivity of software by suppressing a volume of software change  
5 incident to change in the system configuration, and can send or receive a message requested to be sent or received corresponding to its priority.

A middleware is contained in each of control units. Services of the middleware in each of the control units are  
10 as follows, that is, 1. tasks T1, ..., Tn for executing starting AP modules and calling RT communication processing according to starting order information and the like in AP configuration information, and 2. RT communication service for executing sending and receiving messages Msg1, ...,  
15 Msgn between the AP modules corresponding to the calling. The AP configuration information and the messages are generated by an information processor based on user defined information and transmitted to each of the units by on-line or off-line.

20 Further, the real-time distributed system comprises a network controller for executing network communication by storing a plurality of sending and receiving messages, a network driver for executing network communication using the network controller, a network driver priority  
25 management means for determining priority of processing of the network driver corresponding to priorities of sent and received messages to be handled, and a scheduling means for

[illegible]